

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/577,003  
Source: IFWP  
Date Processed by STIC: 5-3-06

***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 05/03/2006

PATENT APPLICATION: US/10/577,003

TIME: 11:21:56

Input Set : E:\DFCI005US.txt

Output Set: N:\CRF4\05032006\J577003.raw

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3 <110> APPLICANT: Kharbanda, Surrender
4   Kufe, Donald
6 <120> TITLE OF INVENTION: Modulation of Interaction of MUC1 with MUC1 Ligands
8 <130> FILE REFERENCE: DFCI:005US
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/577,003
11 <141> CURRENT FILING DATE: 2006-04-24
W--> 13 <140> CURRENT APPLICATION NUMBER: PCT/US2004/034680
W--> 14 <141> CURRENT FILING DATE: 2006-04-24
16 <150> PRIOR APPLICATION NUMBER: 60/514,198
17 <151> PRIOR FILING DATE: 2003-10-24
19 <150> PRIOR APPLICATION NUMBER: 60/519,822
20 <151> PRIOR FILING DATE: 2003-11-12
22 <160> NUMBER OF SEQ ID NOS: 71
24 <170> SOFTWARE: PatentIn version 3.3
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 164
28 <212> TYPE: PRT
29 <213> ORGANISM: Homo sapiens
31 <400> SEQUENCE: 1
33 Met Thr Pro Gly Thr Gln Ser Pro Phe Phe Leu Leu Leu Leu Thr
34 1 5 10 15
37 Val Leu Thr Ala Thr Thr Ala Pro Lys Pro Ala Thr Val Val Thr Gly
38 20 25 30
41 Ser Gly His Ala Ser Ser Thr Pro Gly Gly Glu Lys Glu Thr Ser Ala
42 35 40 45
45 Thr Gln Arg Ser Ser Val Pro Ser Ser Thr Glu Lys Asn Ala Phe Asn
46 50 55 60
49 Ser Ser Leu Glu Asp Pro Ser Thr Asp Tyr Tyr Gln Glu Leu Gln Arg
50 65 70 75 80
53 Asp Ile Ser Glu Met Phe Leu Gln Ile Tyr Lys Gln Gly Gly Phe Leu
54 85 90 95
57 Gly Leu Ser Asn Ile Lys Phe Arg Pro Gly Ser Val Val Val Gln Leu
58 100 105 110
61 Thr Leu Ala Phe Arg Glu Gly Thr Ile Asn Val His Asp Met Glu Thr
62 115 120 125
65 Gln Phe Asn Gln Tyr Lys Thr Glu Ala Ala Ser Arg Tyr Asn Leu Thr
66 130 135 140
69 Ile Ser Asp Val Ser Val Ser Asp Val Pro Phe Pro Phe Ser Ala Gln
70 145 150 155 160
73 Ser Gly Ala Gly
77 <210> SEQ ID NO: 2
78 <211> LENGTH: 492
79 <212> TYPE: DNA

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80 &lt;213&gt; ORGANISM: Homo sapiens

82 &lt;400&gt; SEQUENCE: 2

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83 atgacaccgg gcacccagtc tcctttcttc ctgctgctgc tcctcacagt gcttacagct      60
85 accacagccc ctaaaccgcg aacagttggt acaggttctg gtcatgcaag ctctacccca      120
87 ggtggagaaa aggagacttc ggctaccagc agaagttcag tgcccagctc tactgagaag      180
89 aatgctttta attcctctct ggaagatccc agcaccgact actaccaaga gctgcagaga      240
91 gaattttctg aatgtttttt gcagatttat aaacaagggg gttttctggg cctctccaat      300
93 attaagttca ggccaggatc tgtggtggtt caattgactc tggccttcg agaaggtacc      360
95 atcaatgtcc acgacatgga gacacagttc aatcagtata aaacggaagc agcctctcga      420
97 tataacctga cgatctcaga cgtcagcgtg agtgatgtgc catttccttt ctctgcccag      480
99 tctggggctg gg                                     492

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102 &lt;210&gt; SEQ ID NO: 3

103 &lt;211&gt; LENGTH: 155

104 &lt;212&gt; TYPE: PRT

105 &lt;213&gt; ORGANISM: Homo sapiens

107 &lt;400&gt; SEQUENCE: 3

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109 Met Thr Pro Gly Thr Gln Ser Pro Phe Phe Leu Leu Leu Leu Leu Thr
110 1      5      10      15
113 Val Leu Thr Val Val Thr Gly Ser Gly His Ala Ser Ser Thr Pro Gly
114      20      25      30
117 Gly Glu Lys Glu Thr Ser Ala Thr Gln Arg Ser Ser Val Pro Ser Ser
118      35      40      45
121 Thr Glu Lys Asn Ala Phe Asn Ser Ser Leu Glu Asp Pro Ser Thr Asp
122      50      55      60
125 Tyr Tyr Gln Glu Leu Gln Arg Asp Ile Ser Glu Met Phe Leu Gln Ile
126 65      70      75      80
129 Tyr Lys Gln Gly Gly Phe Leu Gly Leu Ser Asn Ile Lys Phe Arg Pro
130      85      90      95
133 Gly Ser Val Val Val Gln Leu Thr Leu Ala Phe Arg Glu Gly Thr Ile
134      100      105      110
137 Asn Val His Asp Val Glu Thr Gln Phe Asn Gln Tyr Lys Thr Glu Ala
138      115      120      125
141 Ala Ser Arg Tyr Asn Leu Thr Ile Ser Asp Val Ser Val Ser Asp Val
142      130      135      140
145 Pro Phe Pro Phe Ser Ala Gln Ser Gly Ala Gly
146 145      150      155

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149 &lt;210&gt; SEQ ID NO: 4

150 &lt;211&gt; LENGTH: 465

151 &lt;212&gt; TYPE: DNA

152 &lt;213&gt; ORGANISM: Homo sapiens

154 &lt;400&gt; SEQUENCE: 4

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155 atgacaccgg gcacccagtc tcctttcttc ctgctgctgc tcctcacagt gcttacagtt      60
157 gttacaggtt ctggtcatgc aagctctacc ccagggtggag aaaaggagac ttcggctacc      120
159 cagagaagtt cagtgccagc ctctactgag aagaatgctt ttaattcctc tctggaagat      180
161 cccagcaccg actactacca agagctgcag agagacattt ctgaaatggt tttgcagatt      240
163 tataaacaag ggggttttct gggcctctcc aatattaagt tcaggccagg atctgtggtg      300
165 gtacaattga ctctggcctt ccgagaaggt accatcaatg tccacgacat ggagacacag      360
167 ttcaatcagt ataaaacgga agcagcctct cgatataacc tgacgatctc agacgtcagc      420
169 gtgagtgatg tgccatttcc tttctctgcc cagtctgggg ctggg                                     465

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Input Set : E:\DFCI005US.txt

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172 <210> SEQ ID NO: 5
173 <211> LENGTH: 173
174 <212> TYPE: PRT
175 <213> ORGANISM: Homo sapiens
177 <400> SEQUENCE: 5
179 Met Thr Pro Gly Thr Gln Ser Pro Phe Phe Leu Leu Leu Leu Thr
180 1 5 10 15
183 Val Leu Thr Val Val Thr Gly Ser Gly His Ala Ser Ser Thr Pro Gly
184 20 25 30
187 Gly Glu Lys Glu Thr Ser Ala Thr Gln Arg Ser Ser Val Pro Ser Ser
188 35 40 45
191 Thr Glu Lys Asn Ala Leu Ser Thr Gly Val Ser Phe Phe Leu Ser
192 50 55 60
195 Phe His Ile Ser Asn Leu Gln Phe Asn Ser Ser Leu Glu Asp Pro Ser
196 65 70 75 80
199 Thr Asp Tyr Tyr Gln Glu Leu Gln Arg Asp Ile Ser Glu Met Phe Leu
200 85 90 95
203 Gln Ile Tyr Lys Gln Gly Gly Phe Leu Gly Leu Ser Asn Ile Lys Phe
204 100 105 110
207 Arg Pro Gly Ser Val Val Val Gln Leu Thr Leu Ala Phe Arg Glu Gly
208 115 120 125
211 Thr Ile Asn Val His Asp Val Glu Thr Gln Phe Asn Gln Tyr Lys Thr
212 130 135 140
215 Glu Ala Ala Ser Arg Tyr Asn Leu Thr Ile Ser Asp Val Ser Val Ser
216 145 150 155 160
219 Asp Val Pro Phe Pro Phe Ser Ala Gln Ser Gly Ala Gly
220 165 170

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223 <210> SEQ ID NO: 6
224 <211> LENGTH: 519
225 <212> TYPE: DNA
226 <213> ORGANISM: Homo sapiens
228 <400> SEQUENCE: 6
229 atgacaccgg gcaccagtc tcctttcttc ctgctgctgc tcctcacagt gcttacagtt 60
231 gttacaggtt ctggatcatg aagctctacc ccagggtggag aaaaggagac ttcggctacc 120
233 cagagaagtt cagtgccag ctctactgag aagaatgctc tgtctactgg ggtctctttc 180
235 tttttcctgt cttttcacat ttcaaacctc cagttaatt cctctctgga agatcccagc 240
237 accgactact accaagagct gcagagagac atttctgaaa tgtttttgca gattataaaa 300
239 caaggggggtt ttctgggcct ctccaatatt aagttcaggc caggatctgt ggtggtacaa 360
241 ttgactctgg ccttccgaga aggtaccatc aatgtccacg acatggagac acagttcaat 420
243 cagtataaaa cggaagcagc ctctcgatat aacctgacga tctcagacgt cagcgtgagt 480
245 gatgtgccat ttcctttctc tgcccagctc ggggctggg 519

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248 <210> SEQ ID NO: 7
249 <211> LENGTH: 140
250 <212> TYPE: PRT
251 <213> ORGANISM: Homo sapiens
253 <400> SEQUENCE: 7
255 Met Thr Pro Gly Thr Gln Ser Pro Phe Phe Leu Leu Leu Leu Thr
256 1 5 10 15
259 Val Leu Thr Val Val Thr Gly Ser Gly His Ala Ser Ser Thr Pro Gly

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Input Set : E:\DFCI005US.txt

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260          20          25          30
263 Gly Glu Lys Glu Thr Ser Ala Thr Gln Arg Ser Ser Val Pro Ser Thr
264          35          40          45
267 Asp Tyr Tyr Gln Glu Leu Gln Arg Asp Ile Ser Glu Met Phe Leu Gln
268          50          55          60
271 Ile Tyr Lys Gln Gly Gly Phe Leu Gly Leu Ser Asn Ile Lys Phe Arg
272 65          70          75          80
275 Pro Gly Ser Val Val Val Gln Leu Thr Leu Ala Phe Arg Glu Gly Thr
276          85          90          95
279 Ile Asn Val His Asp Val Glu Thr Gln Phe Asn Gln Tyr Lys Thr Glu
280          100         105         110
283 Ala Ala Ser Arg Tyr Asn Leu Thr Ile Ser Asp Val Ser Val Ser Asp
284          115         120         125
287 Val Pro Phe Pro Phe Ser Ala Gln Ser Gly Ala Gly
288          130         135         140
291 <210> SEQ ID NO: 8
292 <211> LENGTH: 420
293 <212> TYPE: DNA
294 <213> ORGANISM: Homo sapiens
296 <400> SEQUENCE: 8
297 atgacaccgg gcacccagtc tcctttcttc ctgctgctgc tcctcacagt gcttacagtt      60
299 gttacagggt ctgggtcatgc aagctctacc ccagggtggag aaaaggagac ttcggctacc      120
301 cagagaagtt cagtgccacag caccgactac taccaagagc tgcagagaga catttctgaa      180
303 atgtttttgc agatttataa acaaggggggt tttctgggcc tctccaatat taagttcagg      240
305 ccaggatctg tggtggtaca attgactctg gccttccgag aaggtaecat caatgtccac      300
307 gacatggaga cacagttcaa tcagtataaa acggaagcag cctctcgata taacctgacg      360
309 atctcagacg tcagcgtgag tgatgtgcca tttcctttct ctgcccagtc tggggctggg      420
312 <210> SEQ ID NO: 9
313 <211> LENGTH: 130
314 <212> TYPE: PRT
315 <213> ORGANISM: Homo sapiens
317 <400> SEQUENCE: 9
319 Met Thr Pro Gly Thr Gln Ser Pro Phe Phe Leu Leu Leu Leu Leu Thr
320 1          5          10          15
323 Val Leu Thr Val Val Thr Gly Ser Gly His Ala Ser Ser Thr Pro Gly
324          20          25          30
327 Gly Glu Lys Glu Thr Ser Ala Thr Gln Arg Ser Ser Val Pro Ser Ser
328          35          40          45
331 Thr Glu Lys Asn Ala Ile Pro Ala Pro Thr Thr Thr Lys Ser Cys Arg
332          50          55          60
335 Glu Thr Phe Leu Lys Trp Pro Gly Ser Val Val Val Gln Leu Thr Leu
336 65          70          75          80
339 Ala Phe Arg Glu Gly Thr Ile Asn Val His Asp Val Glu Thr Gln Phe
340          85          90          95
343 Asn Gln Tyr Lys Thr Glu Ala Ala Ser Arg Tyr Asn Leu Thr Ile Ser
344          100         105         110
347 Asp Val Ser Val Ser Asp Val Pro Phe Pro Phe Ser Ala Gln Ser Gly
348          115         120         125
351 Ala Gly

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TIME: 11:21:56

Input Set : E:\DFCI005US.txt

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352      130
355 <210> SEQ ID NO: 10
356 <211> LENGTH: 390
357 <212> TYPE: DNA
358 <213> ORGANISM: Homo sapiens
360 <400> SEQUENCE: 10
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363 gttacagggt ctggctcatg aagctctacc ccagggtggag aaaaggagac ttcggctacc 120
365 cagagaagtt cagtgccag ctctactgag aagaatgcta tcccagcacc gactactacc 180
367 aagagctgca gagagacatt tctgaaatgg ccaggatctg tggtggtaca attgactctg 240
369 gccttccgag aaggtaccat caatgtccac gacatggaga cacagttcaa tcagtataaa 300
371 acggaagcag cctctcgata taacctgacg atctcagacg tcagcgtgag tgatgtgcca 360
373 tttcctttct ctgccagtc tggggctggg
376 <210> SEQ ID NO: 11
377 <211> LENGTH: 102
378 <212> TYPE: PRT
379 <213> ORGANISM: Homo sapiens
381 <400> SEQUENCE: 11
383 Phe Asn Ser Ser Leu Glu Asp Pro Ser Thr Asp Tyr Tyr Gln Glu Leu
384 1 5 10 15
387 Gln Arg Asp Ile Ser Glu Met Phe Leu Gln Ile Tyr Lys Gln Gly Gly
388 20 25 30
391 Phe Leu Gly Leu Ser Asn Ile Lys Phe Arg Pro Gly Ser Val Val Val
392 35 40 45
395 Gln Leu Thr Leu Ala Phe Arg Glu Gly Thr Ile Asn Val His Asp Val
396 50 55 60
399 Glu Thr Gln Phe Asn Gln Tyr Lys Thr Glu Ala Ala Ser Arg Tyr Asn
400 65 70 75 80
403 Leu Thr Ile Ser Asp Val Ser Val Ser Asp Val Pro Phe Pro Phe Ser
404 85 90 95
407 Ala Gln Ser Gly Ala Gly
408 100
411 <210> SEQ ID NO: 12
412 <211> LENGTH: 306
413 <212> TYPE: DNA
414 <213> ORGANISM: Homo sapiens
416 <400> SEQUENCE: 12
417 ttttaattcct ctctggaaga tcccagcacc gactactacc aagagctgca gagagacatt 60
419 tctgaaatgt ttttgcagat ttataaaciaa ggggggttttc tgggcctctc caatattaag 120
421 ttcaggccag gatctgtggt ggtacaattg actctggcct tccgagaagg taccatcaat 180
423 gtccacgaca tggagacaca gttcaatcag tataaaacgg aagcagcctc tcgatataac 240
425 ctgacgatct cagacgtcag cgtgagtgat gtgccatttc ctttctctgc ccagtctggg 300
427 gctggg
430 <210> SEQ ID NO: 13
431 <211> LENGTH: 375
432 <212> TYPE: PRT
433 <213> ORGANISM: Homo sapiens
435 <400> SEQUENCE: 13
437 Met Thr Pro Gly Thr Gln Ser Pro Phe Phe Leu Leu Leu Leu Leu Thr

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 05/03/2006  
PATENT APPLICATION:    US/10/577,003      TIME: 11:21:57

Input Set : E:\DFCI005US.txt  
Output Set: N:\CRF4\05032006\J577003.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68

Seq#:69,70,71

## VERIFICATION SUMMARY

DATE: 05/03/2006

PATENT APPLICATION: US/10/577,003

TIME: 11:21:57

Input Set : E:\DFCI005US.txt

Output Set: N:\CRF4\05032006\J577003.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:13 M:280 W: Numeric Identifier already exists, <140> found multiple times  
L:13 M:281 W: Numeric Fields not Ordered, <140> not ordered!.  
L:13 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:14 M:280 W: Numeric Identifier already exists, <141> found multiple times  
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date